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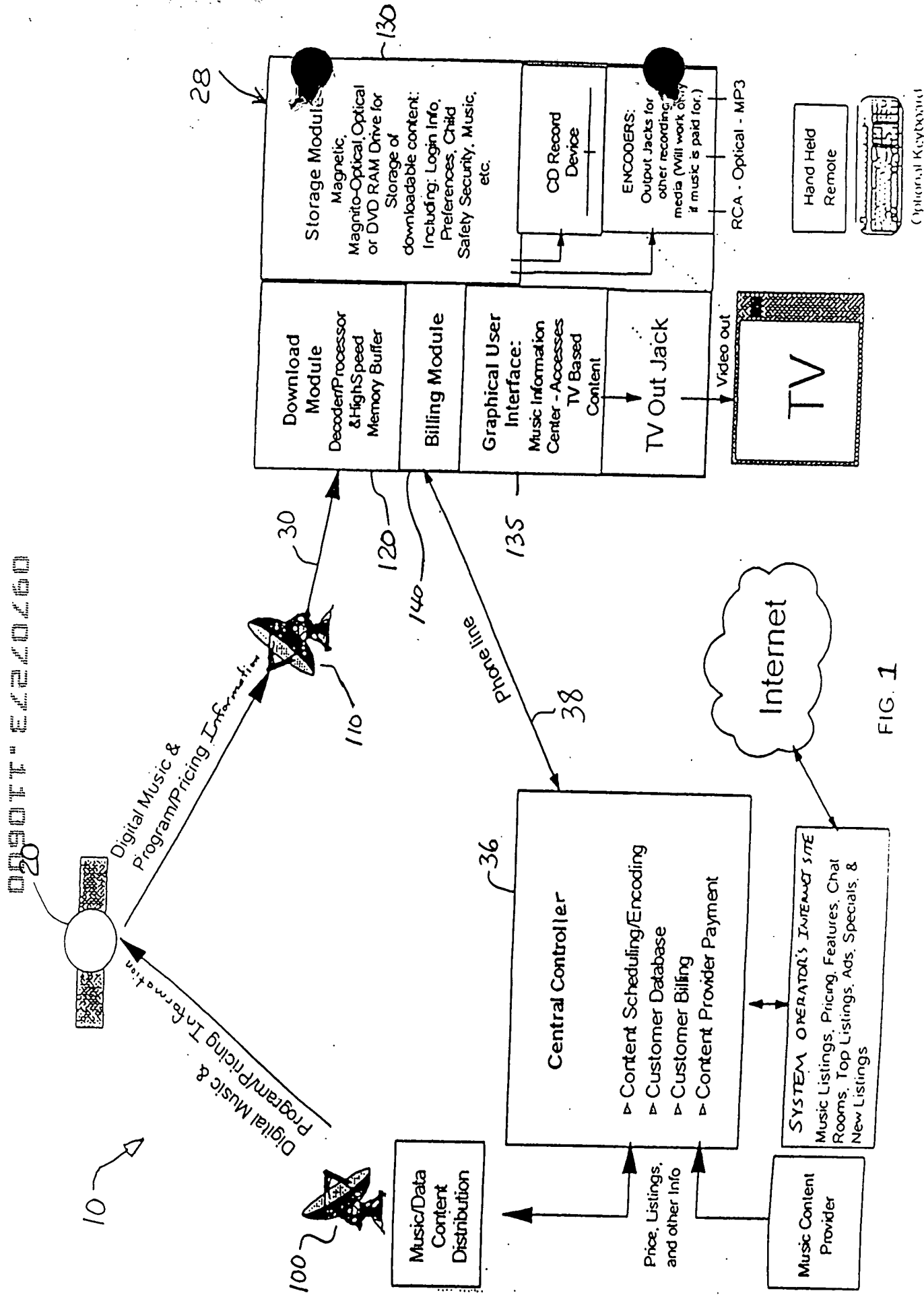


FIG. 1

Step	Module Name	Description	Hardware Involved
1	Selection	Customer looks at recently updated "Catalog" of available music selections on his TV using the graphical user interface. Use remote to page through information.	User station, remote, customer TV, stored catalog
2	Ordering	Customer uses user station, remote and TV screen to order standard or customized CD. Order communicated to central controller by Internet or modem. Central controller issues decoding and encryption key(s), selection locations and order number to user station for preview.	User station, modem/Internet, remote, customer TV
3	Downloading	Music selections are downloaded during early morning transmission hours as encrypted, compressed files through customer's satellite dish and receiver to hard disk in user station. User station selects correct TV channel on receiver using IR link.	User station, satellite receiver, video output interface
4	Decoding	User station uses decoding key(s) to decode downloaded file(s) so that full quality music is on disk drive (or other storage medium) in user station. Customer order number is hidden within this music based upon encryption information received during ordering process.	User station
5	Previewing	Brief portions of downloaded selections may be "previewed" by the customer along with the entire selection that has been "hobbled" by removing information to degrade music quality and prevent reconstruction of music.	User station, remote, customer's amp, speakers and TV
6	Playing	Customer plays full-quality selection through his hi-fi or TV sound system with post billing back his account via later modem/Internet communication with the central controller. Playing may include graphics, written jacket information, or hearing impaired cues shown on customer's TV.	User station, remote, customer's amp, speakers and TV
7	CD Delivery	Full-quality CD that can be heard on any CD player is burned with order number (ID tag) hidden in the music. (Burning process does not need to be quick.)	User station, CD burner, customer supplied CD
	Account Setup	Happens when customer buys and hooks up the user station.	

Fig. 2

009011" E2240260

10

Digital Music & Program/Pricing Information

Digital Music & Program/Pricing Information

28

30

100

Music/Data Content Distribution

36

Central Controller

- ▷ Content Scheduling/Encoding
- ▷ Customer Database
- ▷ Customer Billing
- ▷ Content Provider Payment

Price, Listings, and other Info

Music Content Provider

SYSTEM OPERATOR'S INTERNET SITE
Music Listings, Pricing, Features, Chat Rooms, Top Listings, Ads, Specials, & New Listings

Internet

Phone line

38

135

140

120

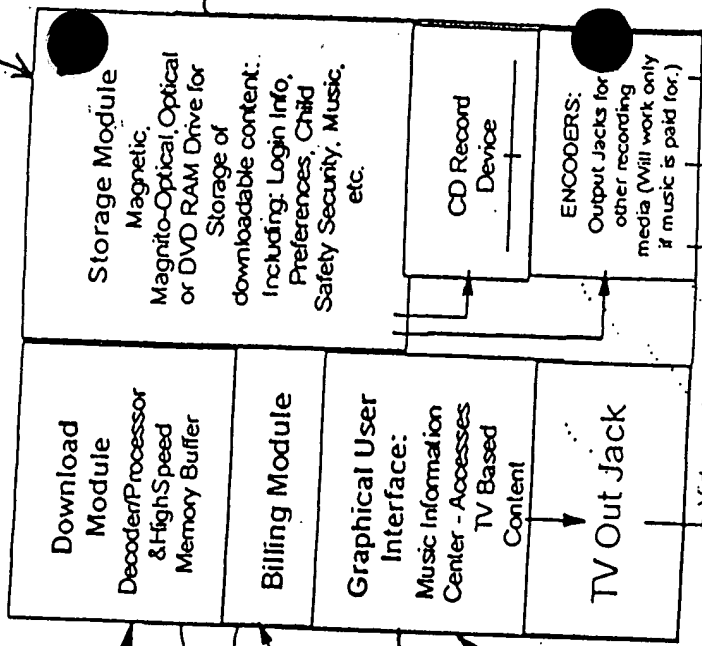


FIG. 3

2000-01-01

Optional Content/
Programming
Transmission Links

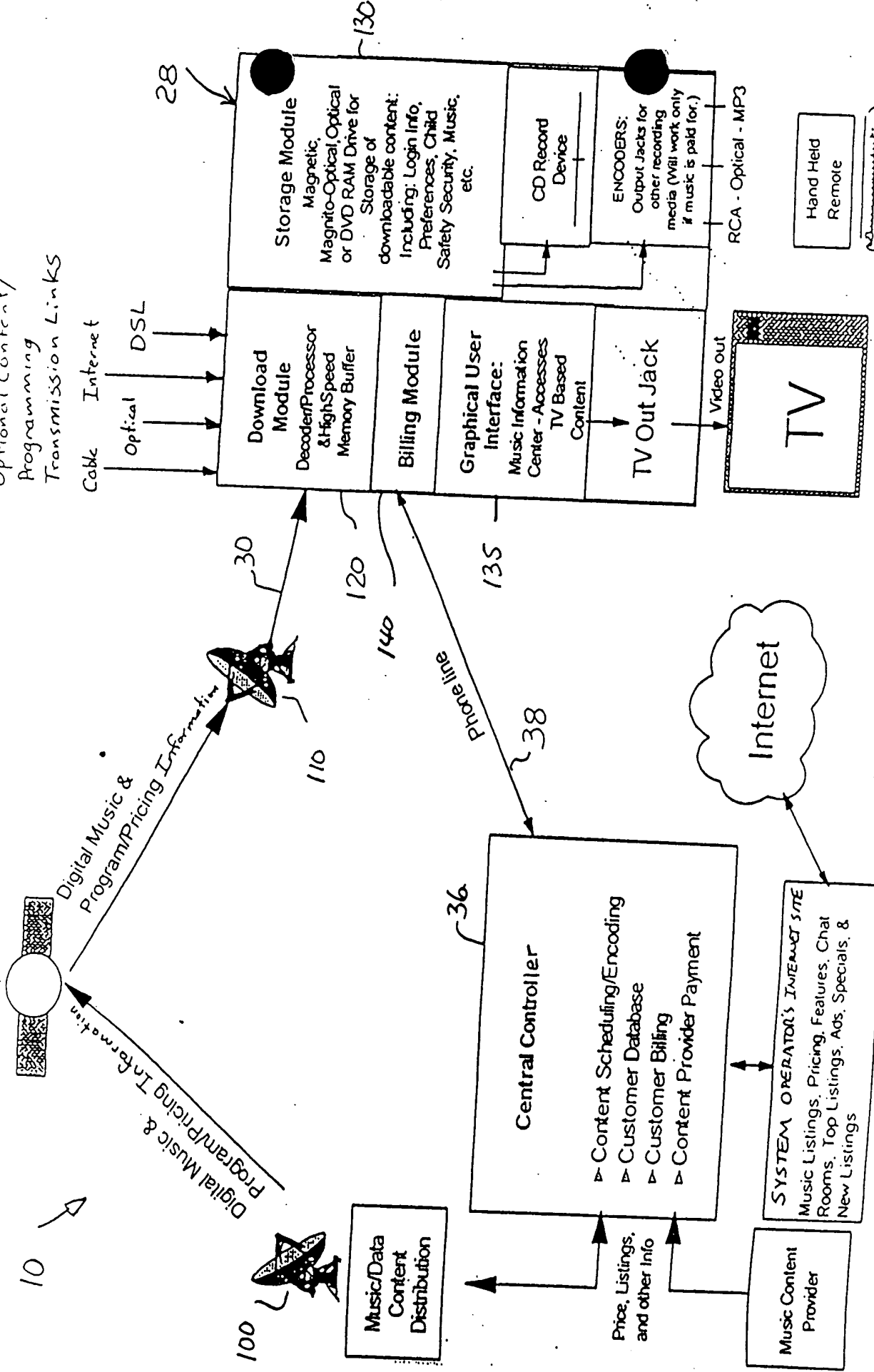


FIG. 4

009071 E220260

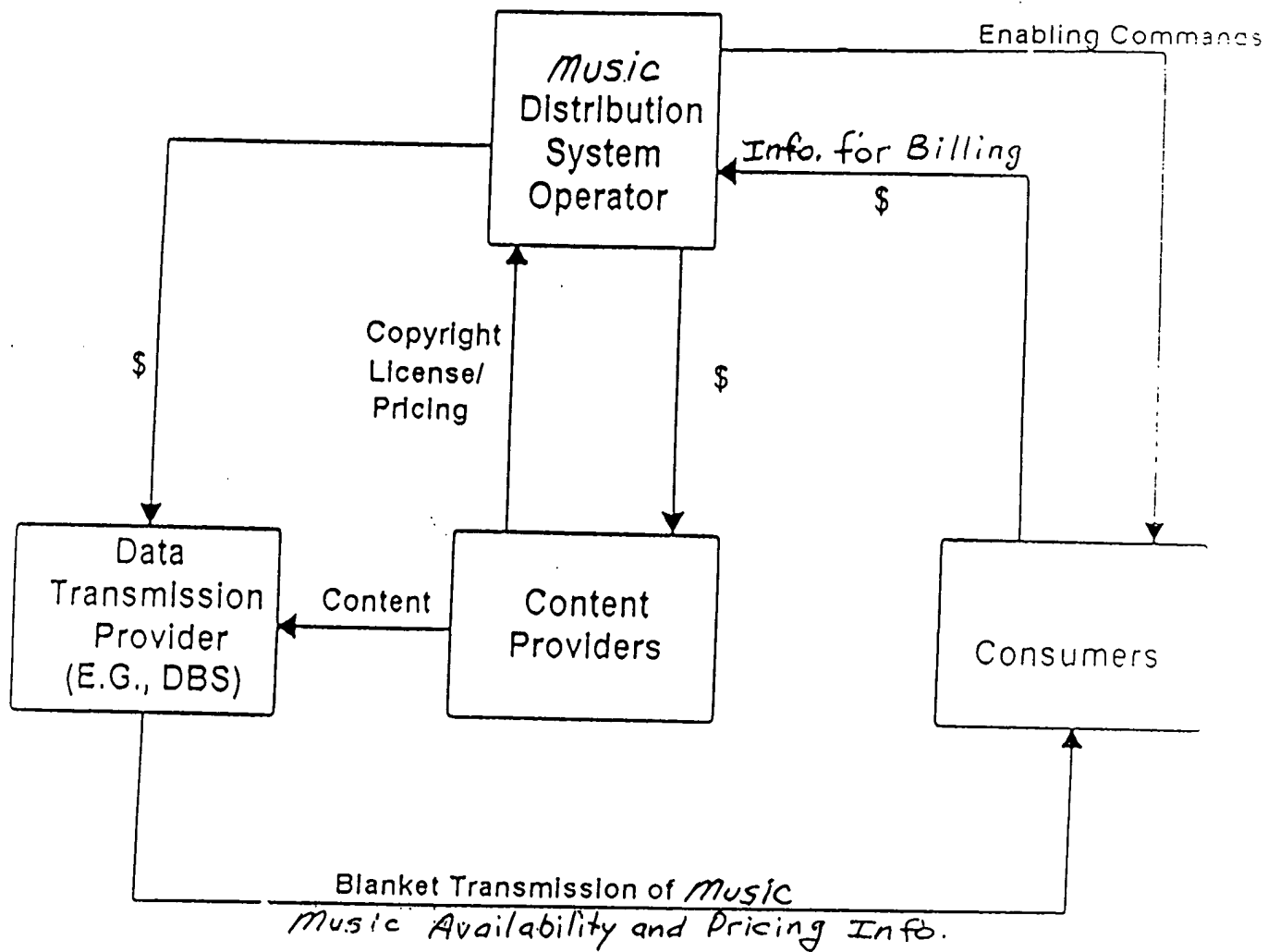


FIG. 5

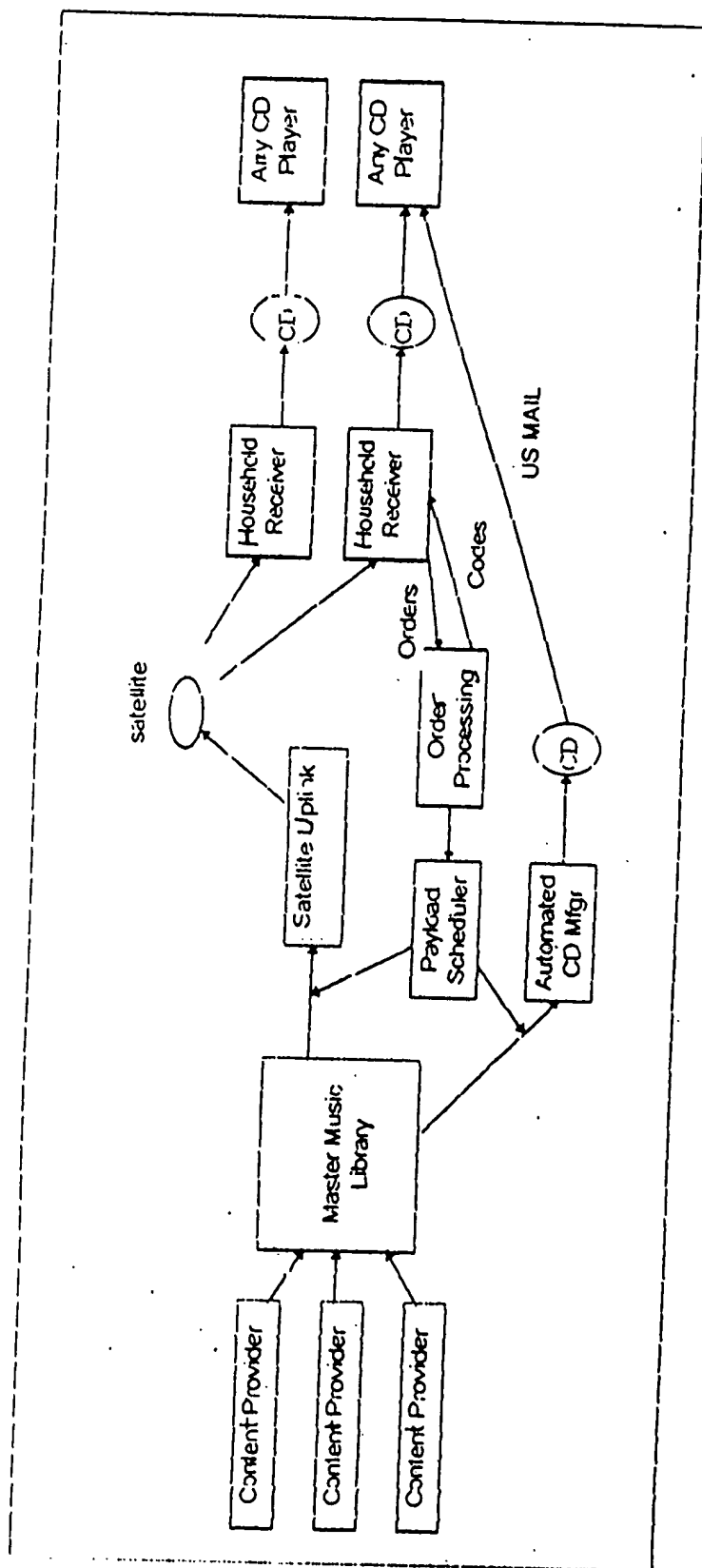


Fig. 6

TOP REQUESTED MUSIC. Streaming During the Day

Billing is automatic
and consolidated in
their monthly
statement

User selects top
requested music off
the menu

User leaves the
channel on the
Music channel until
the content is
downloaded. (every
hour) The user
interface flashes
"You've got tunes"

User records the
music

- ✓ 1/4 of a Transponder
- ✓ Top songs are always available during the day.
- ✓ Singles and Full length
- ✓ Simple to select
- ✓ Minimum wait time - "on-demand"

Fig. 7

% of Customer Usage

Percent of Catalog

Batch Stream at Night

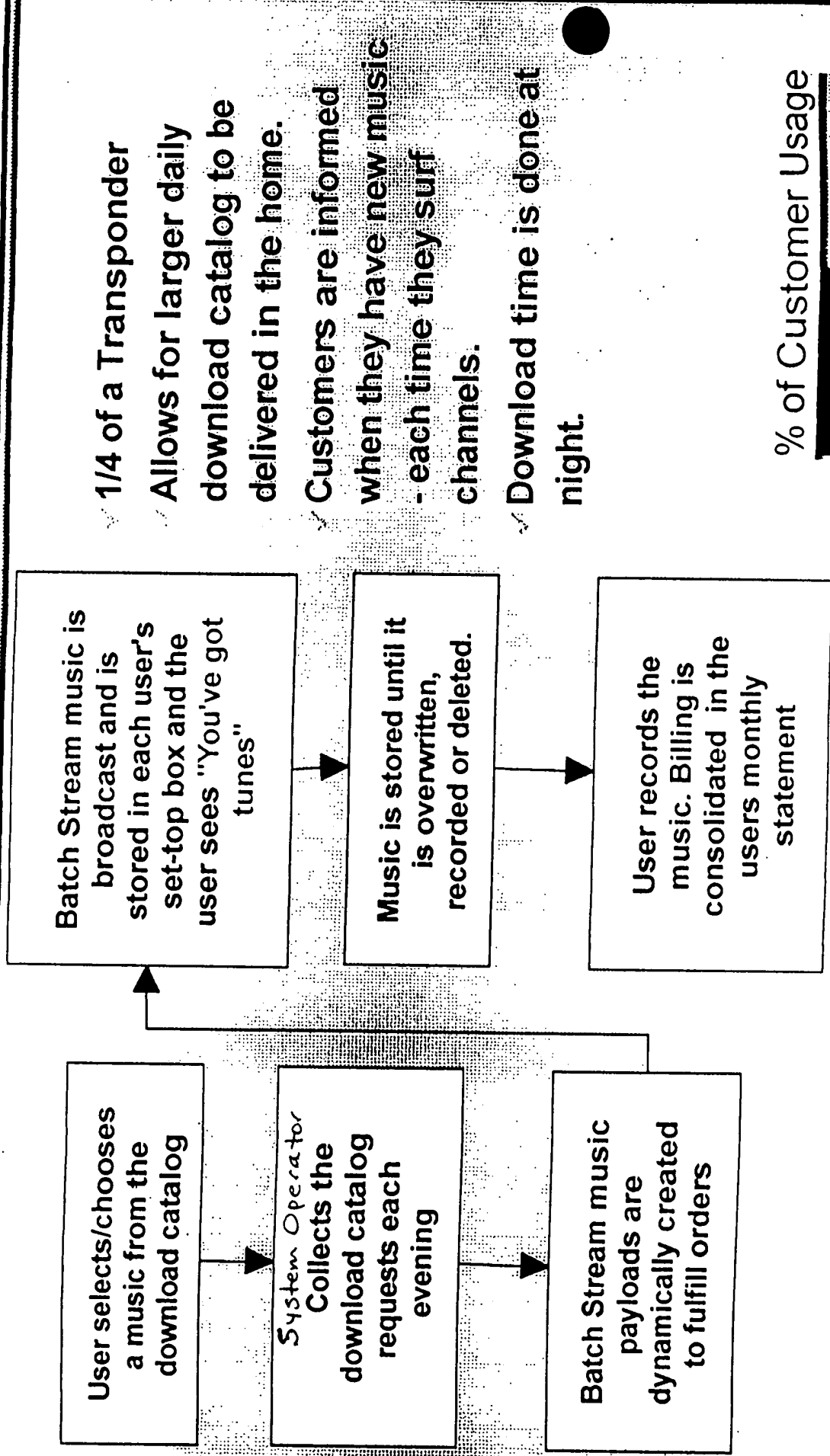


Fig. 8

Select Music Style Preferences

- | | | |
|-----------------------------|-------------------------|----------------------------|
| - <u>Alternative</u> | - <u>Comedy</u> | - <u>Jazz</u> |
| - <u>Blues</u> | - <u>Dance & DJ</u> | - <u>Latin</u> |
| - <u>Books & Spoken</u> | - <u>Easy Listening</u> | - <u>Metal</u> |
| - <u>Children's Music</u> | - <u>Electronic</u> | - <u>New Age</u> |
| - <u>Christian &</u> | - <u>Folk</u> | - <u>Opera & Vocal</u> |
| - <u>Gospel</u> | - <u>Hip Hop/Rap</u> | - <u>Pop & Rock</u> |
| - <u>Classical</u> | - <u>International</u> | - <u>R&B/Soul</u> |
| - <u>Country</u> | | |

Fig. 9

Search Song Artist

Account Status

Customer Service



Celine Dion
All The Way... A Decade of Song
Order now, click here

Step 1 - Select a Style

- Alternative
- Blues
- Books & Spoken
- Children's Music
- Christian &
- Gospel
- Classical
- Country
- Comedy
- Dance & DJ
- Easy Listening
- Electronic
- Folk
- Hip Hop/Rap
- International
- Jazz
- Latin
- Metal
- New Age
- Opera & Vocal
- Pop & Rock
- R&B/Soul

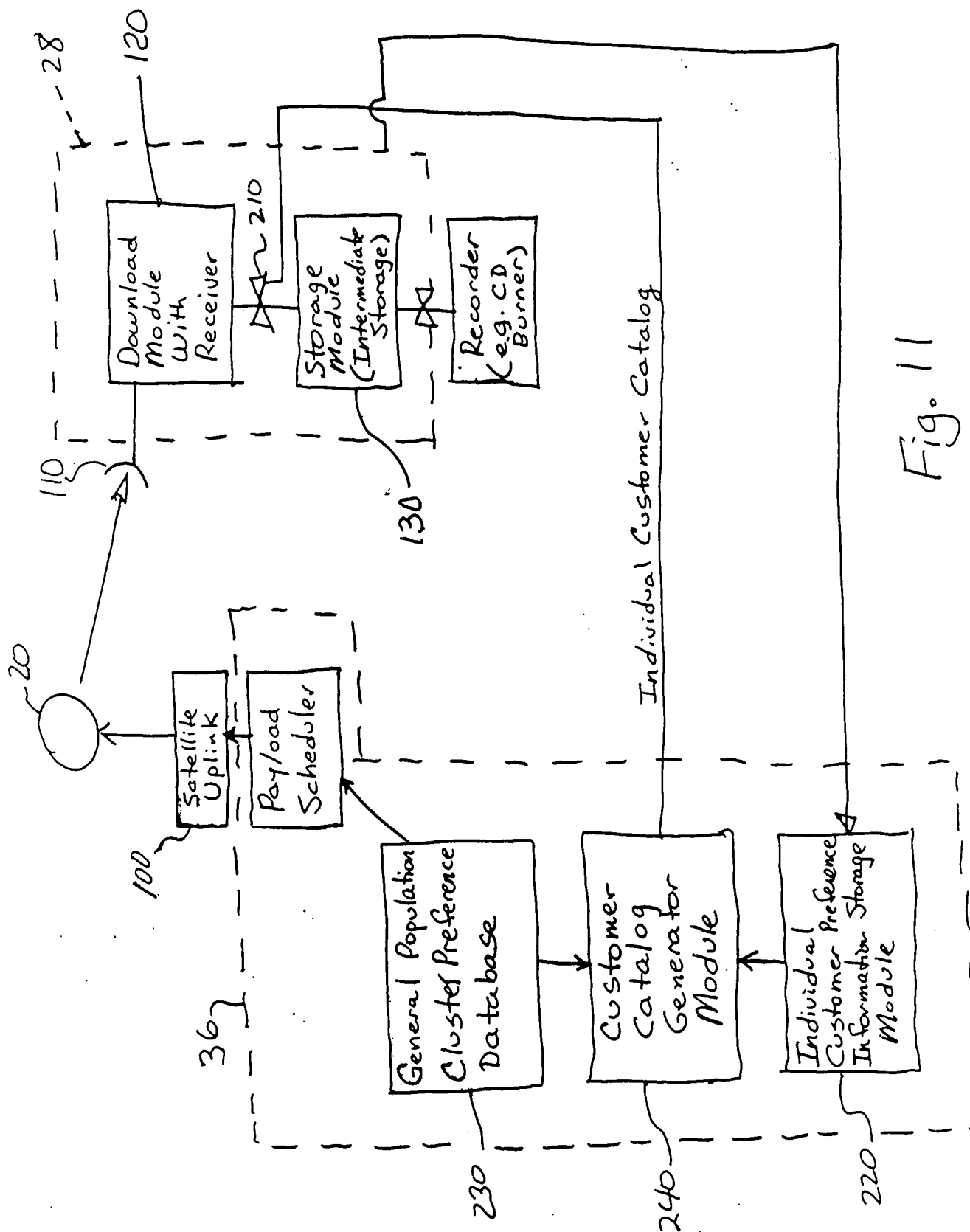
Step 2 - Select A Subgroup

- All by Song
- All by Artist / Group
- Female Artists
- Male Artists
- Bands
- Top 20 Artists this month
- Top 20 Songs this month

Step 3 - Select Artist

- Artist 1
- Artist 2
- Artist 3
- Artist 4
- Artist 5
- ...

Fig. 10



Profile-based Streaming

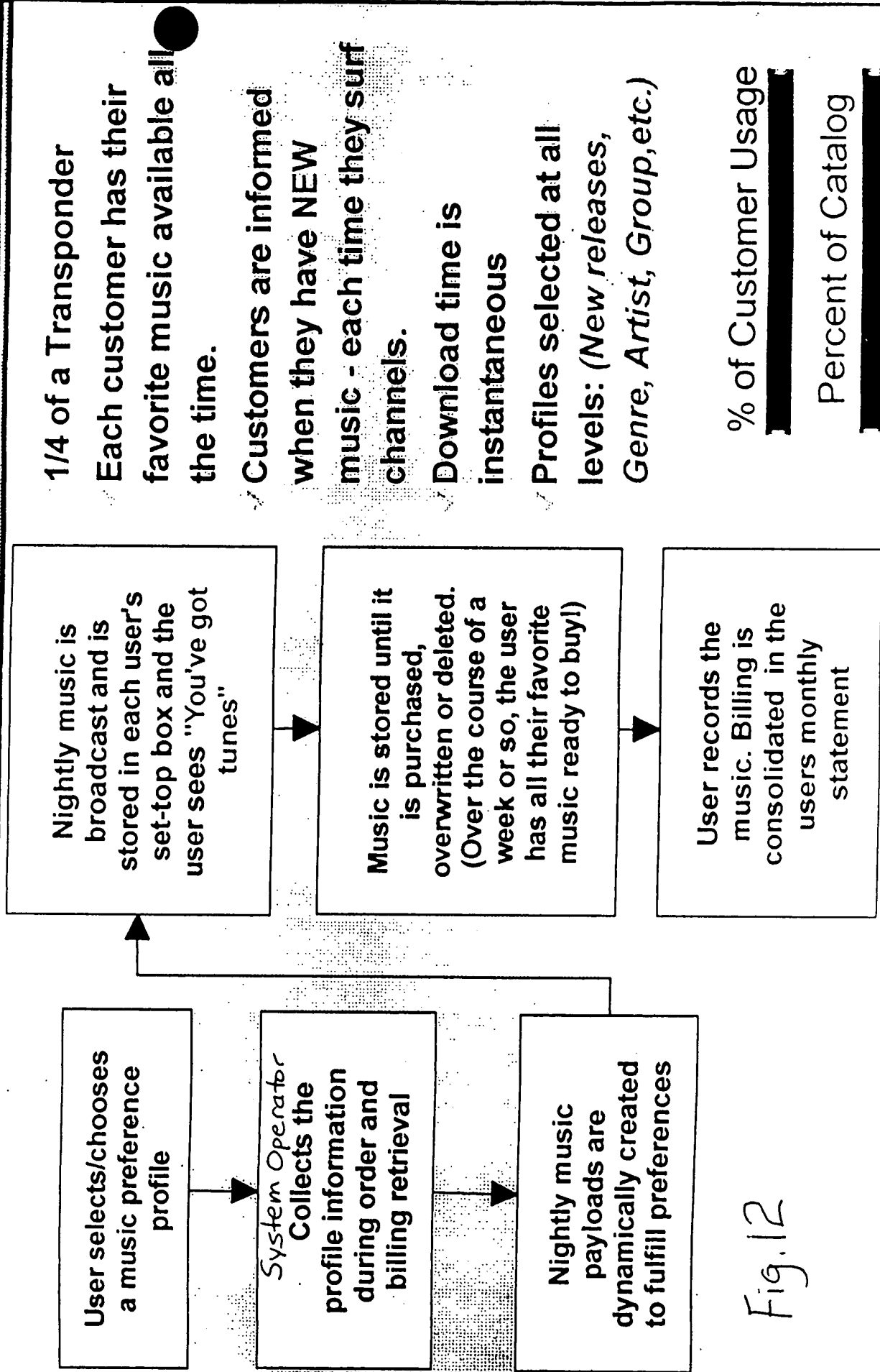


Fig.12

Promotion-based Streaming

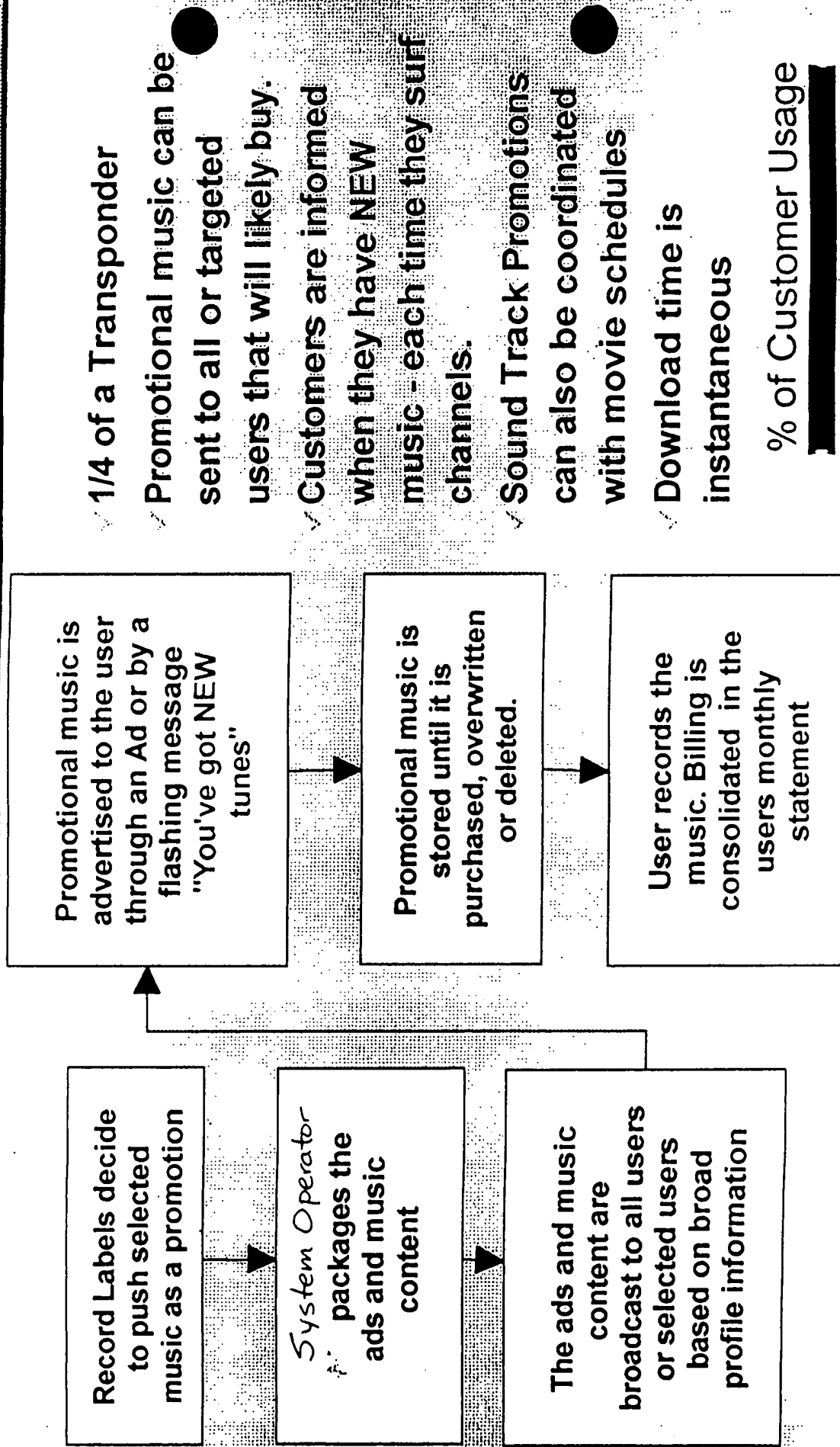


Fig. 13

Quick-Ship Overnight

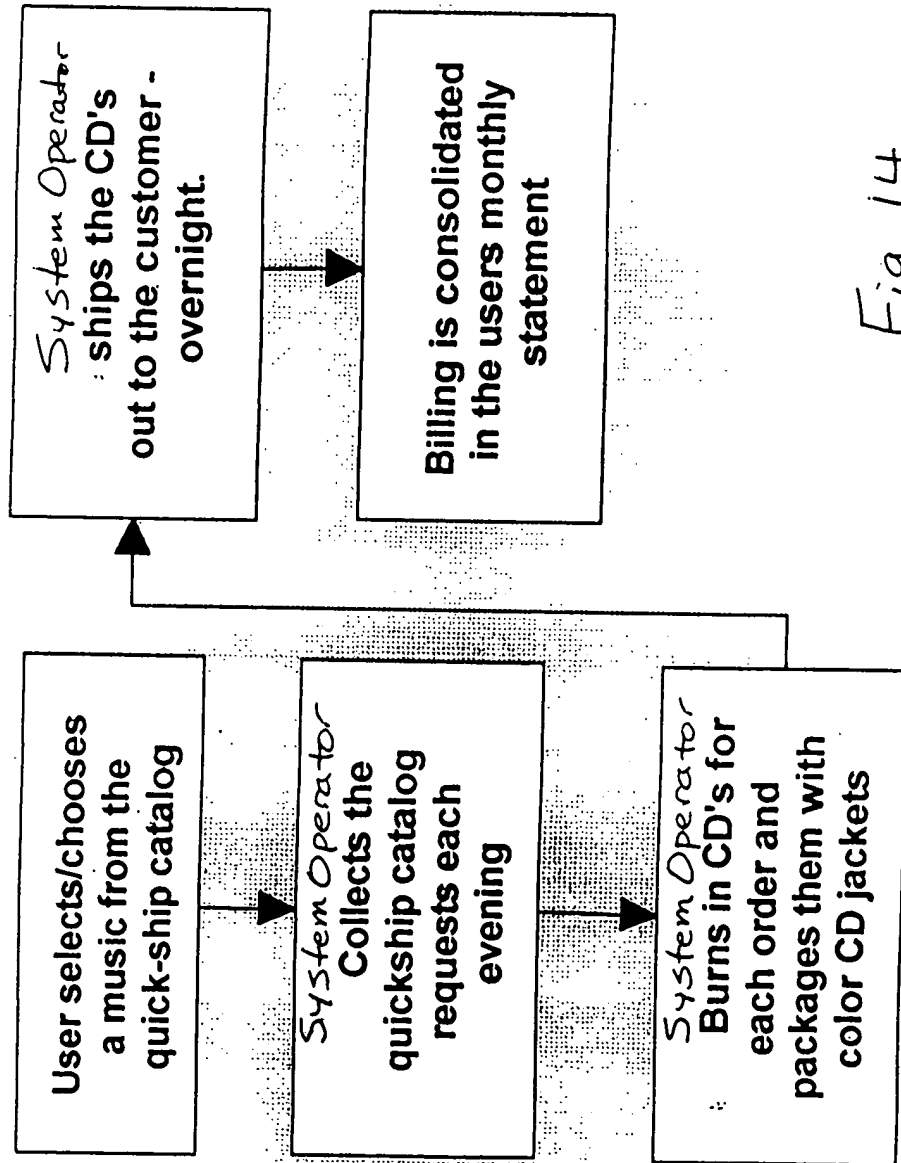


Fig. 14

- ✓ No bandwidth required
- ✓ Allows for full music catalog - millions of songs
- ✓ Customers get a personalized CD the next day.
- ✓ Consolidated billing

% of Customer Usage

Percent of Catalog

	Customers w/o CD Burner	Customers with CD Burner
Steaming during the day (Top releases from download catalog)		✓
Batch stream at night (All ordered releases from download catalog)		✓
Profile based stream at night (Releases from full library "Quick-ship" catalog)		✓
Promotion based Stream (Promotional music pushed by Record Label)		✓
Quick-ship overnight (Full library catalog)	✓	✓

Fig. 15

10

Digital Music & Program/Pricing Information

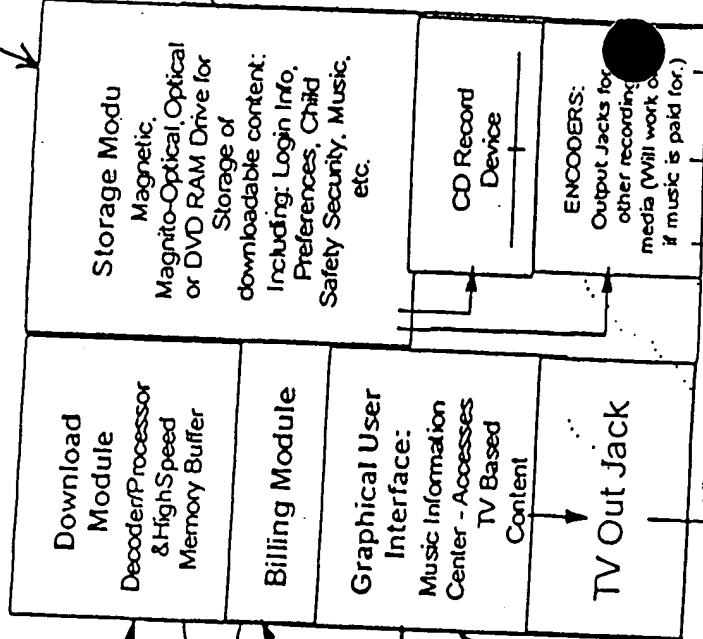
Digital Music & Program/Pricing Information



Music/Data Content Distribution



28

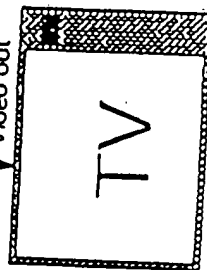


RCA - Optical - MP3

Hand Held
Remote



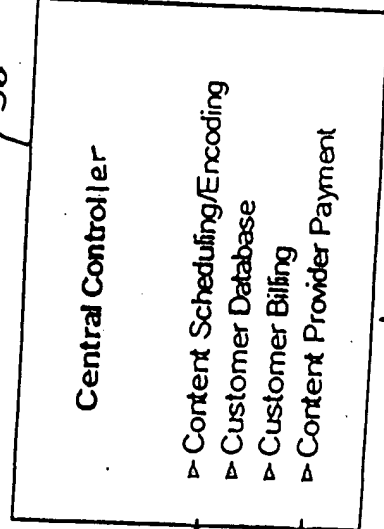
Optional Keyboard



Customer Household's
Personal Computer

Phone line

36



Price, Listings,
and other Info

Music Content
Provider

SYSTEM OPERATOR'S INTERNET SITE
Music Listings, Pricing, Features, Chat
Rooms, Top Listings, Ads, Specials, &
New Listings

Peer-to-Peer Music
Sharing System
(e.g. NAPSTER) Internet
Site

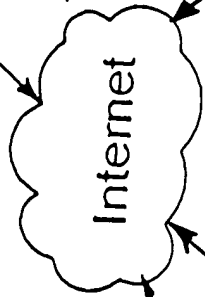


FIG. 16